WARNING - TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION - TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

DANGER - THIS DEVICE CONTAINS A CLASS 1 LASER DEVICE. INVISIBLE LASER RADIATION WHEN OPENED AND INTERLOCK FAILED OR DEFEATED. AVOID DIRECT EXPOSURE TO BEAM.

MicroNet
19260 Van Ness Avenue
Torrance, CA 90501
Sales: 310-320-7272
Support: 310-320-0772

www.MicroNet.com

FCC Compliance Statements

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in residential installation. This equipment generates, uses, and can radiate frequency energy and, if not installed and used in accordance with the instructions, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to equipment off and on, the user is encouraged to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the distance between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

5-27-2003 MNFWUSBCD RevC

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www.MicroNet.com

HARDWARE GUIDE
MACINTOSH & WINDOWS

GENESIS® RAID SYSTEMS

•

SANCUBE FIREWIRE® STORAGE AREA NETWORK

•

RAIDBANK® RAID TOWERS

•

FIBREFLEX™ WORKGROUP SOLUTIONS

•

DATADOCK® TRANSPORTABLE STORAGE SYSTEMS

•

MICRONET ADVANTAGE SERIES

INSTALLING YOUR MICRONET ADVANTAGE CD-RW, DVD-R/RW, DUAL RW OPTICAL DRIVE

Thank you for choosing MicroNet! Your MicroNet optical drive has been built to the highest standard of quality and workmanship and, when used according to the instructions in this guide, will provide years of trouble-free operation. We at MicroNet take great pride in bringing personal satisfaction to each of our customers.

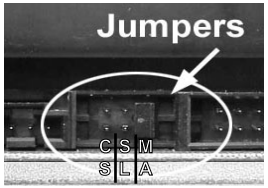
Your drive is compatible with all FireWire or USB-capable Apple Macintosh computers running MacOS 9.1 (or greater), Mac OS 10.1 and Jaguar (or greater) and PC-Compatible computers running Windows 98-Second Edition, Millenium Edition, Windows 2000, or Windows XP.

Revised June 2003

INSTALLATION- Internal Hardware

The following steps must be performed to properly install your drive:

1. Set Drive Jumper Settings



The mode select jumpers are 6 straight angle pins located on the rear of the DVD-R/-RW Combo drive.. By placing a jumper on the pins, you can select the ATA device operating Mode:

MA: Master, default position
SL: Slave configuration
CS: Cable Select configuration

Important Note: Disconnect power from your computer system before beginning installation.

2. Mount Drive

Remove computer cover and faceplate if required. Refer to your computer system's manual for removal information. If the DVD-R/-RW Combo drive is replacing a CD-ROM, remove CD-ROM presently installed in your system. Place the DVD-RW Combo drive in any free half-height drive slot at the front of your computer. (It can be mounted horizontally or vertically.)

Carefully start sliding the DVD-R/-RW Combo drive into the opening with the disc tray facing the front of the computer. Before you push the drive all the way in you will need to connect the IDE BUS cable, Audio cable and the Power cable on the back of the drive.

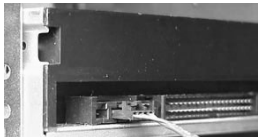
3. Attach IDE BUS Cable

Your computer system should have a primary and secondary IDE BUS, cable with your Hard Drive most likely being the Master on the primary BUS. Connect BUS cable as follows, assuring that pin 1 of cable (side with red stripe) is connected to pin 1 (closest to the power connector) of the DVD-R/-RW Combo drive's interface connector. Please remember that each BUS can only have one master and one slave devices.

4. Attach Power Cable

Connect an internal computer power supply cable to the power socket at the back of the DVD-R/-RW Combo drive. One side of the plug has chamfered edges, so the power connector fits only one way. Push plug completely into the socket making sure the plug fits correctly

5. Attach audio cable



If you have a sound card and speakers, and would like to play audio CDs on your computer, you will need to install a CD/DVD audio cable. The sound cable connects to your sound card at one end and the other end connects to the digital audio connector at the left rear of the DVD-R/-RW Combo drive. Refer to the instructions that came with your sound card for details on any sound-driver software required

6. Completing the installation

After you have connected all the necessary cables, push the DVD-R/-RW Combo drive completely into the computer's drive slot. Mount drive per your computer's instructions. The screw length should not exceed 3±0.5mm (measured from outside surface of side or bottom of drive to tip of screw). Replace computer cover and all outer screws.

TROUBLESHOOTING

To avoid corruption or loss of data, never disconnect your drive while transferring data

Please Be sure to turn ON your MicroNet Storage Device before connecting it to your computer

My computer will not recognize the drive

Make sure the software for your drive is installed, following the instructions in this manual. Disconnect the drive and power the unit off. Wait 15 seconds, then power your drive back on. Wait 5 more seconds, then reconnect the drive to your computer system.

When I try to burn CDs, I get a "Sense Key" error or other burning failures

This is usually caused by burning at faster speed than the media allows. Make sure the media you are writing to is compatible with the speed you are trying to burn. Here are some suggestions to successful burning: try lowering the burn speed down and if you are burning to CD-R media; choose "Write CD" option instead of the "Write Session" option; Increase the Disk buffer size in the CD Burning application.

My DVD burns keep failing. Why?

There are many brands of DVD media, not all of which are compatible with all DVD mechanisms. Please try a different brand of media, and check with www.MicroNet.com for the latest compatibility information.

Can I use my USB CDRW/DVD-RW through a USB hub?

Yes, As long as the hub is a powered hub since bus powered hubs do not work with mass storage devices. For best results, MicroNet recommends running directly off of the USB port on the computer

The computer will not boot from a FireWire or USB CD

Booting from Firewire is currently supported on all Firewire enabled Macintosh computer except towers with PCI graphics, as well as some PCs with supported BIOS. You cannot presently boot your Macintosh from a USB peripheral, although this may be supported by future MacOS releases. Please check our website at www.MicroNet.com for the latest updates.

My Drive is not recognized by my burning software (MacOS9)

Please go into your Extensions Manager and at the top change your Selected Set to "Mac OS 9.x All". Create a "Duplicate Set" of these extensions, then scroll down to the "FireWire Authoring Support" extension and uncheck it (if enabled.) Next, Reinstall your burning software and reboot. Once you are back up to your desktop, open Toast and your drive should now be recognized.

I can't burn CDs from iTunes (MacOS9)

Some burning programs disable Apple's extensions when installed. If you enable Apple's USB Authoring Support and Firewire Authoring Support, iTunes will be able to see the recorder. Note that iTunes may not be compatible with your drive- Please check www.apple.com/iTunes for more information.

I have a problem not listed on this page

MicroNet offer additional troubleshooting resources on our website at www.MicroNet.com/support/faqs. If the problem still persists, please call our support hotline at 310-320-0772.

For additional troubleshooting information please visit our webste at

www.Micronet.com

DVD-R/RW+CDRW Specifications

The DVD-RW format is designed as a user recordable format that is compatible with existing DVD environment, which means that data written to DVD-RW will be physically compatible with your desktop or set-top DVD players. As with standard DVDs, DVD-RW discs can contain up to 4.7GB of data per side, and can be used to store video, audio, or user file data. The DVD-RW format is a member of the DVD Forum's family of DVD Specifications, and is a rewriteable medium that allows users to record, erase, and re-record their own DVD discs more then 1000 times.

Media Support

Media write compatibility:

DVD+/-R 4.7GB Write Once General Use
DVD+/-RW 4.7GB ReWritable General Use
CDR, CDR Media

Read media compatibility:

DVD-ROM single/dual layer
DVD+/-R, DVD+/-RW
CD Media, CDR, CDRW, PhotoCD, VideoCD, CD-Extra, CD-Text.

Important Note: There are many brands of DVD media, not all of which are compatible with all DVD mechanisms. Please try a different brand of media, and check with www.MicroNet.com for the latest compatibility information.

DAILY USE TIPS

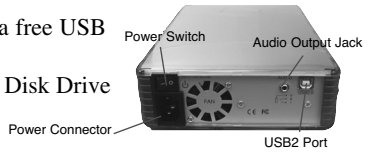
- Additional application software may have been included with your drive. Please review the documentation included with this software for information on the operation and support of this software. The documentation can usually be found in an electronic format on the installation CD.
- Always operate your drive on a steady and level surface. Do not move the unit while it is turned on.
- Plug your drive into a *grounded* electrical outlet. The use of "ground-defeating" adapters will cause damage not covered by your warranty.
- You can connect or disconnect your MicroNet Storage Device to your computer while the power is turned on; however, make sure that no other devices on the connection are active when "hot-plugging" or disconnecting your device.
- When disconnecting a FireWire drive, always drag its icon to the trash (or select the "Put-Away" command from the *File* menu) to remove it from the desktop before disconnecting the drive.
- MicroNet Hard Disk Drives are compatible with the leading hard disk repair and defragmentation software. We recommend using this software to maintain peak performance and data-integrity of your drive. Contact your local software retailer for more information about the software best suited for your computer.
- The IEEE-1394 standard for FireWire sets a limit of 63 FireWire devices per computer. When connecting directly to your computer, there should be no more than 16 cable lengths between the computer's FireWire port and the last FireWire device.

HARDWARE INSTALLATION-EXTERNAL

USB

ATTENTION WINDOWS 98 USERS: Before connecting your DVD, please insert the included driver CD Rom and run "TPPINST.EXE". Please be sure to have your Windows 98 installation CD available as it may be required during installation. Select Complete Install, and reboot the computer when prompted. This is only required the first time you install a MicroNet USB Storage Device.

- Connect the square end of the included peripheral cable to the USB port on the rear of your MicroNet USB Storage Device.
- Connect the rectangular end of the cable to a free USB port on your PC or USB hub.
- Connect the power cable to your USB Hard Disk Drive and plug it into a grounded outlet.
- Press the power switch to turn on your MicroNet USB Storage Device.

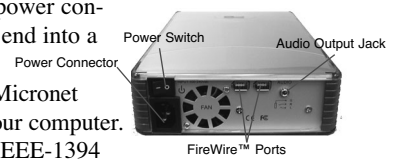


Note: in order to reach USB 2.0 speeds, you must have a computer or host adapter that has USB 2.0 support. Your MicroNet storage device will autosense the highest available connection speed.

Firewire

ATTENTION WINDOWS 98 USERS: Before connecting your DVD, please install the Microsoft 1394 patch (Microsoft Support Document Q242975.) This update can be downloaded from MicroSoft or from the MicroNet support web page. Please be sure to have your Windows 98 installation CD available as it may be required during installation.

- Plug the included power cable into the power connector on your drive and plug the other end into a grounded electrical outlet.
- Press the power switch to turn on your Micronet Drives storage device, then power-on your computer.
- Connect one end of the included 6-pin IEEE-1394 peripheral cable to one of the FireWire ports on the rear of your drive.
- Connect the other end to one of your computer's FireWire ports, or to the FireWire port on a device already connected to your computer.



Installation

1. Turn on your computer. Wait until startup has completed.
2. Plug in the power on your MicroNet DVD and turn it on. Please make sure that the Power LED comes on, indicating that the drive is powered up.
3. Connect one end of the IEEE 1394 cable to the drive and the other end to an available IEEE 1394 port on the computer.
4. Your MicroNet Optical Drive will be automatically detected. If the driver was not installed during the initial installation (*Windows*), you may be asked to insert your Windows installation CD-ROM in your computer's internal CD/DVD-ROM drive. After Windows is done with the driver installation, you may be asked to restart your computer.
5. (*Windows Only*) On the Windows desktop, open My Computer. Windows will have assigned a drive letter and icon for your MicroNet optical drive. Please note the DVD drive letter for later use.

SOFTWARE INSTALLATION

Apple Macintosh Systems

1. Insert the included Installation CD into your computer's CD-ROM drive.
2. Double click the installer Icon.
3. Follow the on-screen instructions to finalize the installation.
4. Reboot your computer. Your MicroNet Firewire storage device is ready to use!

ATTENTION OS9.x users: Please be sure to **disable** the Firewire Authoring Support extension for proper use. Please note that with Apple's FireWire Authoring Support extension disabled you will not be able to use Apple's Disk Burner or iTunes' burn to CD function. For more information about enabling and disabling extensions, please see your MacOS user manual.

A NOTE ABOUT DVD PLAYBACK:

At the time of publication of this manual, Mac OS does not support DVD-Video playback by external DVD peripherals While it is technically possible to watch DVD films on a Mac using your MicroNet DVD drive, we cannot, for legal reasons, provide the necessary extensions. Check the Apple and MicroNet websites regularly for any updates.

Additional Software may be included with your product. Please be sure to review all documentation on the included software CDs.

Windows Systems

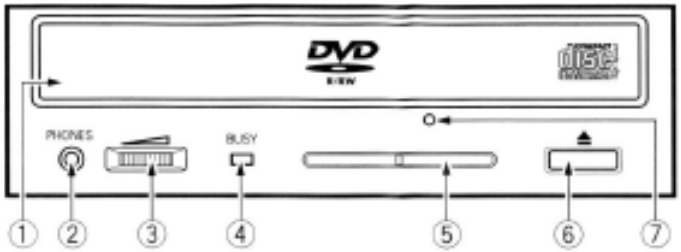
Your MicroNet optical drive comes with authoring and archive software included. Please refer to the included CD Rom for installation and operation instructions.

MicroNet DVD-RW drives come with ***Sonic MyDVD MediaSuite*** authoring and archive software included. Sonic MyDVD MediaSuite allows you master digital video and data alike! In addition to burning video and data, Sonic MediaSuite supports direct analog and DV video capture with on the fly compression from any WDM compliant capture devices or OHCI IEEE1394 compliant DV capture devices.

Installation instructions for Sonic MyDVD Suite are available on the included CD

CD/DVD Operation

CD/DVD Controls



1) Disc Tray - Auto-loading using the Eject button
2) Headphone stereo mini-jack
3) Volume Control
4) Read/Write Indicator
5) Ventilation Holes (do not block)
6) Eject button
7) Forced Ejection hole

CD/DVD media precautions

- Do not use or store CD/DVD media in dirty or dusty locations; in locations subject to extreme temperatures; in warm or humid locations where condensation may form; or in locations exposed to direct sunlight.
- Do not use cracked, warped or damaged CD/DVD media. The media may break up inside the drive, damaging it and possibly leading to injury.
- Do not touch or write on the disc surface.
- Do not drop, bend or flex the discs, or place any heavy objects on them.
- Do not apply any labels that may come loose inside the drive.
- Store cartridges in their protective sleeves when they are not being used.
- Do not incinerate CD/DVD media: discs that are no longer used should be disposed of according to local regulations.

Emergency ejection of DVD and CD media

In the event that a media cannot be ejected with the load/eject button and when no software is controlling the drive, an emergency eject operation will open the media tray. Insert a small metal poker, such as an unbent paper clip, into the opening until it presses against the manual eject mechanism. You will feel the mechanism eject the media tray. Use this method only when the load/eject button is not working.

Warning! Make sure the drive has been off for a minute or longer, that the disc has stopped spinning in the drive and that the power is unplugged before attempting the emergency ejection procedure.